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## 11.0 QUALITY ASSURANCE

The Foster Wheeler Environmental Corporation (FWENC) *Quality Program Plan (QPP)*, ISF-FW-PLN-0017, describes the quality assurance program that directs quality-related activities at the Idaho Spent Fuel (ISF) Facility (Ref. 11-1). These activities include design, fabrication, construction, testing, operation, modification, and decommissioning of the structures, systems, and components of the ISF Facility.

The QPP was prepared consistent with the requirements of Title 10, Code of Federal Regulations (CFR), Part 72, Subpart G, *Quality Assurance*, and the guidance contained in NUREG 1567, *Standard Review Plan for Spent Fuel Dry Storage Facilities* (Refs. 11-2 and 11-3).

The FWENC QPP was previously submitted to the NRC via letter dated March 31, 2001 (Ref. 11-1). A revision to the QPP was subsequently submitted to the NRC on April 10, 2002 (Ref. 11-5).

### 11.1 ORGANIZATION

FWENC maintains full responsibility for the development and execution of the ISF Facility quality assurance program. Key subcontractors are described in Section 1.4. Support services provided by subcontractors are controlled in accordance with Section 4.0, *Procurement Document Control*, and Section 7.0, *Control of Purchased Items and Services*, of the QPP.

The QPP describes the ISF Facility organization and reporting chain for the Quality Manager. Each person conducting work within the scope of the ISF quality assurance program is responsible for effectively implementing the requirements of the program within their scope of responsibility. The Quality Manager has the primary responsibility for ensuring the overall implementation, adequacy, and effectiveness of the ISF Facility quality assurance program.

The Quality Manager is a FWENC corporate-sponsored resource assigned to the ISF Facility, who functions at the same level as the other facility functional management having line responsibilities affecting quality. The Quality Manager reports through a management chain separate from the ISF Facility Manager. This reporting relationship ensures that quality program management is sufficiently independent of responsibility for cost and scheduling issues. The overall FWENC organization is further described in Section 9.1.

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## 11.2 QUALITY ASSURANCE PROGRAM

The overall quality assurance program consists of the QPP, policies, implementing procedures, work practices, management plans, and management systems utilized at the ISF Facility. The QPP describes the quality assurance methodologies and strategies that FWENC will use for the design, construction, operation, and subsequent decommissioning of the ISF Facility.

The QPP is formatted consistent with the 18 sections of 10 CFR 72, Subpart G (72.142-72.176) and also addresses the 18 criteria of American Society of Mechanical Engineers (ASME) NQA-1, *Quality Assurance Program Requirements for Nuclear Facility Application*, 1994 Edition, summer 1995 Addenda including supplements (Ref. 11-4).

As described in Section I of the QPP, changes that result in a reduction of the commitments described in the QPP will not be made without prior NRC approval.

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### 11.3 REFERENCES

- 11-1 Letter dated March 31, 2001, from Mr. Robert K. Stampley (FW-NRC-ISF-01-0144) transmitting FWENC *Quality Program Plan*, ISF-FW-PLN-0017.
- 11-2 Title 10, Code of Federal Regulations, Part 72, *Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste*, Washington, DC.
- 11-3 U.S. Nuclear Regulatory Commission, NUREG 1567, *Standard Review Plan for Spent Fuel Dry Storage Facilities*, Washington, DC, March 2000.
- 11-4 ASME NQA-1, *Quality Assurance Program Requirements for Nuclear Facility Application*, 1994 Edition, summer 1995 Addenda.
- 11-5 Letter dated April 10, 2002, from Ronald D. Izatt (FW-NRC-ISF-02-0115) transmitting Revision 3 to FWENC *Quality Program Plan*, ISF-FW-PLN-0017.

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